

MAR 22 2007

60,246-283; 10,793

IN THE CLAIMS

1. (Currently Amended) A compressor comprising:

an electric motor having a stator and a rotor, said rotor driving a shaft for rotation, and said motor being mounted in a motor chamber, said motor chamber including a suction inlet for receiving a fluid to be compressed, such suction inlet passing the fluid to be compressed over said motor to cool said motor;

a compressor housing, said compressor housing being mounted adjacent to said motor chamber, said compressor housing including a compressor pump unit driven by said shaft to compress a fluid, and said compressor pump unit including a chamber for receiving refrigerant from said motor chamber to be compressed by said compressor pump unit, said compressor pump unit including reciprocating pistons movable within said chambers, a lubricant supply system included for supplying a lubricant to said shaft-and

said shaft including a bearing mounted at an end of said motor rotor adjacent to said compressor housing, and a mount for said bearing, a lubricant supply for supplying lubricant to a location on the shaft remote from the motor, and lubricant flowing along a passage on the shaft toward the motor, said mount including an oil return passage for returning lubricant from said bearing toward an end of said bearing spaced away from said motor;

said compressor housing separated from said motor housing by said mount, said mount including drain passages for guiding a returned lubricant away from said motor rotor; and

said bearing provided with a notch for supplying lubricant through said bearing to said mount, said mount being provided with a drain passage for directing lubricant to said end of said bearing remote from said motor rotor.

2.-4. (Cancelled)

5. (Currently Amended) A compressor as set forth in claim 1, ~~claim 4~~, wherein a notch is formed in said mount at an end of said drain passage remote from said motor rotor, said notch being formed in an end face of said mount, and further assisting the flow of lubricant away from said motor rotor.

BEST AVAILABLE COPY

60,246-283; 10,793

6. (Original) A compressor as set forth in claim 5, wherein a thrust bearing is positioned at an end of said mount adjacent to said notch.

7. (Original) A compressor as set forth in claim 6, wherein said thrust bearing is provided with a notch, said thrust bearing notch cooperating with said mount notch to further ensure lubricant is supplied to said second end of said bearing.

8. (Original) A compressor as set forth in claim 1, wherein an oil seal is positioned at a second end of said bearing spaced towards said motor.

9. (Currently Amended) A compressor comprising:

an electric motor having a stator and a rotor, said rotor driving a shaft for rotation, and said motor being mounted in a sealed chamber, said chamber including a suction inlet for receiving a fluid to be compressed, such suction inlet passing said fluid to be compressed over said motor to cool said motor;

a compressor housing, said compressor housing being mounted adjacent to said motor housing, said compressor housing including a compressor pump unit with reciprocating pistons driven by said shaft to compress a fluid, and said compressor housing including a suction plenum for receiving refrigerant from said motor chamber for delivery to chambers associated with said pistons; and

a lubricant supply for supplying lubricant to said shaft, said shaft including a bearing mounted at an end of said motor rotor adjacent to said compressor housing, such that said bearing is intermediate said compressor pump unit and said motor rotor, and a mount for said bearing, the lubricant supply for supplying lubricant to a location on the shaft remote from the motor, and lubricant flowing along a passage on the shaft toward the motor, said mount including an oil return passage for returning lubricant from said bearing towards an end of said bearing spaced away from said motor, said compressor housing separated from said motor housing by said mount, said mount including drain passages for guiding returned lubricant away

60,246-283; 10,793

from said motor rotor; said bearing is provided with a notch for supplying lubricant through said bearing to said mount, said mount being provided with a drain passage for directing lubricant to said end of said bearing remote from said motor rotor.

10.-11. (Cancelled)

12. (Currently Amended) A compressor as set forth in claim 9, claim 11, wherein a notch is formed in said mount at an end of said drain passage remote from said motor rotor, said notch being formed in an end face of said mount, and further assisting the flow of lubricant away from said motor rotor.

13. (Original) A compressor as set forth in claim 12, wherein a thrust bearing is positioned at an end of said mount adjacent to said notch.

14. (Original) A compressor as set forth in claim 13, wherein said thrust bearing is provided with a notch, said thrust bearing notch cooperating with said mount notch to further ensure lubricant is supplied to said second end of said bearing.

15. (Original) A compressor as set forth in claim 9, wherein an oil seal is positioned at a second end of said bearing spaced towards said motor.

16. (Previously Presented) A compressor as set forth in claim 1, wherein the lubricant supply includes a lubricant pump for directing lubricant to an end of said shaft remote from said motor, the lubricant passing along a passage within said shaft toward said motor, and exiting the shaft to lubricate said bearing.

60,246-283; 10,793

17. (Previously Presented) A compressor as set forth in claim 9, wherein the lubricant supply includes a lubricant pump for directing lubricant to an end of said shaft remote from said motor, the lubricant passing along a passage within said shaft toward said motor, and exiting the shaft to lubricate said bearing.